

ADDITIONAL NOTES ON GRASSES OF BOONE COUNTY, MISSOURI. —During the past two seasons, a number of previously unreported species of grasses have been observed in Boone County in central Missouri. The several publications relating to the local flora have been reviewed in ascertaining unreported species, Daniels (1907), Rickett (1931), Bush (1931), Drouet and Jeffry (1934), Drouet (1935), and Drew (1942). In addition, the University herbarium was surveyed for any specimens collected in the county, but which hitherto had not been reported.

Following is a report on several species occurring in the county.

DIPLACHNE FASCICULARIS (Lam.) Beauv. A representative collection was made from wet margin of natural sinkhole ponds occurring on high ground near Missouri River at Rocheport, T48N, R14N, SE $\frac{1}{4}$ sect. 17. Coll. 730, October 22, 1952. Listed by Palmer and Steyermark for adjacent Randolph County and several other counties in central Missouri.

TRIODIA STRICTA (Nutt.) Benth. Several dense stands occur on moist open ground six miles east of Columbia, T48N, R12W, sect. 12. Coll. 650, September 25, 1952. Known from southeast Missouri.

SPHENOPHOLIS INTERMEDIA Rydb. This species is common, listed by Rickett as *S. pallens* (Spreng.) Scribn. of Gray's Manual, ed. 7, however, not *S. pallens* (Biehler) Scribn. of ed. 8 which does not occur here.

MUHLENBERGIA FRONDOSA, f. *COMMUTATA* (Scribn.) Fern. This form was found on moist ground of large impoundment approximately eight miles south of Columbia, T47N, R12W, sect. 26. Coll. 515, August 2, 1952.

PHALARIS ARUNDINACEA L. This introduced perennial occurs sparingly in the county, in erosion control plantings and on dam sites. Representative collection was obtained from pond on University Farm. Coll. 429, August 17, 1951.

ANTHOXANTHUM ODORATUM L. This species is well established on grounds near University greenhouses. Coll. 301, May 6, 1951. Specimens collected in 1944 from same general location by Maneval. It has been found since on low ground of a stream branch south of Columbia, May 8, 1953.

PASPALUM PUBIFLORUM, var. *GLABRUM* Vasey. This variety was collected on moist ground along shaded roadside near Missouri River at Providence, T47N, R13W, SW $\frac{1}{4}$ sect. 20. Coll. 695, October 10, 1952. Several specimens in herbarium collected outside the county as *P. laeviglume* Scribn. of ed. 7.

SETARIA FABERI Herrm. This adventive is becoming more common and perhaps has been present for some time, occurring in cultivated fields and waste ground. Coll. 400, August, 1951.

ANDROPOGON ELLIOTTII Chapm. A representative specimen was brought in from an old field one mile west of Columbia, T48N, R13W, sect. 15, and probably marks its most northerly distribution in this portion

of Missouri. This species also occurs on the University Arboretum approximately 18 miles south of Columbia, T46N, R11W, sect. 29, having been found several years earlier by Livingston.

ANDROPOGON SACCHAROIDES Sw. This species previously known from southwest Missouri was observed along the M-K-T Railroad near Providence, T47N, R14W, sect. 20, 28. Coll. 721, October 15, 1952.—C. L. KUCERA, DEPARTMENT OF BOTANY, UNIVERSITY OF MISSOURI.

LITERATURE CITED

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PLANTS RECENTLY FOUND IN SOUTHERN ILLINOIS.—During recent field work in southern Illinois two plants which are new to the State have been discovered. Two others recognized as rare have been found and extend the range within the State. The plants and collection data follow:

CYPERUS FILICINUS Vahl., a single specimen, was found in a roadside depression near the village of De Soto, Ill. This species is known mostly from along the Atlantic and Gulf Coast. As given in Gray's Manual, 8th edition, the range is "rarely fresh pond-shores, Fla. to La., n. to s. Me." The Illinois station would seem to be an extension of range to the midwest.

The material was checked by G. D. Fuller of the herbarium of the Illinois State Museum. Dr. Julian Steyermark has also verified the determination. The material was divided and deposited in the herbarium of the Illinois State Museum, Springfield, and in the Herbarium of Southern Illinois University, Carbondale. *J. W. Voigt* 391.

ALLIUM MUTABILE Michx., was found in considerable abundance on the top of a sandstone bluff and in the niches of exposed sandstone at the roadside near Trigg (forest lookout) Tower in Johnson County. This plant has been reported both from south-